

Licorice

Tea products

(exts.; antimicrobial compns. contg. arginine, bactericides and surfactants)

L38 ANSWER 21 OF 36 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:753858 HCAPLUS

DOCUMENT NUMBER: 123:152623

TITLE: Stable **dentifrice** compositions containing
licorice extract and ascorbic acid
esters

INVENTOR(S): Ikeda, Keiji; Wada, Tomoko; Myashita, Rumiko

PATENT ASSIGNEE(S): Nippon Flour Mills, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 07157417	A2	19950620	JP 1993-304258	19931203
	JP 3245285	B2	20020107		
AB	Dentifrice compns., which are discoloration-free and do not release foul odor, contain <u>fat-sol. licorice ext.</u> and ascorbic fatty acid esters [e.g. ascorbyl (di)palmitate].				
IC	ICM A61K007-26				
CC	62-7 (Essential Oils and Cosmetics)				
ST	dentifrice licorice ext ascorbate ester; fatty ascorbate ester stabilizer dentifrice				
IT	Dentifrices Discoloration prevention Heat stabilizers (dentifrices contg. licorice ext. and ascorbic fatty acid esters as stabilizers)				
IT	Licorice (fat-sol. ext. ; dentifrices contg. licorice ext. and ascorbic fatty acid esters as stabilizers)				
IT	Fatty acids, biological studies RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (long-chain, esters, with ascorbic acid; dentifrices contg. licorice ext. and ascorbic fatty acid esters as stabilizers)				
IT	137-66-6, Ascorbyl palmitate 28474-90-0, Ascorbyl dipalmitate RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (dentifrices contg. licorice ext. and ascorbic fatty acid esters as stabilizers)				

L38 ANSWER 22 OF 36 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:294571 HCAPLUS

DOCUMENT NUMBER: 122:64040

TITLE: Breath protection microcapsules containing

antimicrobial agents and sweeteners

INVENTOR(S): Peterson, Liezl G.; Sanker, Lowell A.; Upson, James G.

PATENT ASSIGNEE(S): Procter and Gamble Co., USA

SOURCE: U.S., 4 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5370864	A	19941206	US 1993-85222	19930629
WO 9501156	A1	19950112	WO 1994-US5955	19940526
W: BR, CA, CN, JP, PL, RU				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5620707	A	19970415	US 1996-609411	19960301
PRIORITY APPLN. INFO.:			US 1993-85222	19930629
			US 1994-312843	19940927

AB The present invention relates to oral compns. in the form of microcapsules which reduce oral bacteria and provide long-lasting **breath** protection. The **breath** control/antimicrobial active agent is selected from cetyl pyridinium chloride, domiphen bromide, and mixts. thereof. A preferred sweetener is a mixt. of acetosulfam, saccharin Na, aspartyl phenylalanine Me ester, and monoammonium glycyrrhizin. For example, a **breath-freshening** microcapsule contained gelatin 9.840, 70% sorbitol soln. 3.616, saccharin 0.418, acetosulfam 0.495, aspartyl phenylalanine Me ester 0.495, and monoammonium glycyrrhizin 0.027, neohesperidin dihydrochalcone 0.020, FD&C blue no.1 0.010, FD&C yellow no.5 0.005, Captex-300 8.352, flavor 7.158, cetyl pyridinium chloride 0.675, domiphen bromide 0.075, propylene glycol 2.017, glycerin 0.270, PEG 29.522, sucrose acetate isobutyrate 33.408, and water 3.397%.

IC ICM A61K009-50
 ICS A61K009-16; A61K009-68

NCL 424049000

CC 62-7 (Essential Oils and Cosmetics)
 Section cross-reference(s): 63

ST **breath freshener** microcapsule quaternary ammonium compd

IT Deodorants
 (**breath fresheners**, **breath** protection microcapsules contg. antimicrobial agents and sweeteners)

IT 81-07-2, Saccharin 123-03-5, Cetyl pyridinium chloride 128-44-9, Saccharin sodium 139-05-9, Cyclohexylsulfamic acid sodium salt 538-71-6, Domiphen bromide 20702-77-6, Neohesperidin dihydrochalcone 22839-47-0, Aspartyl phenylalanine methyl ester 53956-04-0, Glycyrrhizin monoammonium salt 55589-62-3
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (breath protection microcapsules contg. antimicrobial agents and sweeteners)

L38 ANSWER 23 OF 36 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:417762 HCAPLUS

DOCUMENT NUMBER: 121:17762

TITLE: **toothpaste** for periodontal disease control

INVENTOR(S): He, Mingfu

PATENT ASSIGNEE(S): Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 9 pp.
 CODEN: CNXXEV

DOCUMENT TYPE: Patent

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

L14 378409 SEA FILE=HCAPLUS ABB=ON PLU=ON SENSITIVIT?
 L15 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L14 AND L11
 L16 56329 SEA FILE=HCAPLUS ABB=ON PLU=ON INHIBIT? (2A) CONCEN?
 L17 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 AND L16
 L18 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 OR L15 OR L17
 L27 873 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 (L) (EXT#/OBI OR EXTRACT?/OBI)
 L32 261 SEA FILE=HCAPLUS ABB=ON PLU=ON BREATH (L) FRESH?
 L33 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L32 AND L8
 L34 2261 SEA FILE=HCAPLUS ABB=ON PLU=ON CHEW?/OBI (L)GUM#/OBI
 L35 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L34 AND L27
 L36 8202 SEA FILE=HCAPLUS ABB=ON PLU=ON TOOTHPAST?/OBI OR TOOTHPOWDER?/OBI OR DENTIFRIC?/OBI OR MOUTHWASH?/OBI
 L37 30 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 AND L36
 L38 36 SEA FILE=HCAPLUS ABB=ON PLU=ON L37 OR L33 OR L35
 L39 2 SEA FILE=REGISTRY ABB=ON PLU=ON CETYLPYRIDINIUM/CN OR "CETYPYRIDINIUM CHLORIDE"/CN
 L40 1 SEA FILE=REGISTRY ABB=ON PLU=ON "SODIUM SELENITE"/CN
 L41 1 SEA FILE=REGISTRY ABB=ON PLU=ON "ZINC CHLORIDE"/CN
 L42 1 SEA FILE=REGISTRY ABB=ON PLU=ON "CALCIUM CHLORIDE"/CN
 L43 1 SEA FILE=REGISTRY ABB=ON PLU=ON "MAGNESIUM CHLORIDE"/CN
 L44 1 SEA FILE=REGISTRY ABB=ON PLU=ON "CUPRIC CHLORIDE"/CN
 L45 1 SEA FILE=REGISTRY ABB=ON PLU=ON CUPRIC GLUCONATE/CN
 L46 1 SEA FILE=REGISTRY ABB=ON PLU=ON "ZINC GLUCONATE"/CN
 L47 1 SEA FILE=REGISTRY ABB=ON PLU=ON "MAGNESIUM GLUCONATE"/CN
 L48 1 SEA FILE=REGISTRY ABB=ON PLU=ON "CALCIUM GLUCONATE"/CN
 L49 11 SEA FILE=REGISTRY ABB=ON PLU=ON (L39 OR L40 OR L41 OR L42 OR L43 OR L44 OR L45 OR L46 OR L47 OR L48)
 L50 107 SEA FILE=HCAPLUS ABB=ON PLU=ON L49 AND L8
 L51 20 SEA FILE=HCAPLUS ABB=ON PLU=ON L50 AND (L9 OR L36)
 L52 13 SEA FILE=HCAPLUS ABB=ON PLU=ON L51 NOT (L38 OR L18)

=> d .ca l52 1-13

L52 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:707164 HCAPLUS
 DOCUMENT NUMBER: 135:247044
 TITLE: Mouthwashes containing bactericides and anti-inflammatories
 INVENTOR(S): Segawa, Hiroyuki; Naito, Junko
 PATENT ASSIGNEE(S): Earth Chemical Co., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001261576	A2	20010926	JP 2000-80598	20000322

AB This invention relates to mouthwashes comprising bactericides and anti-inflammatories to be used after removal of food residues from teeth. The compns. are effective in preventing dental plaques and gingivitis. The preferred bactericides are cationic surfactants and the anti-inflammatories are preferably glycyrrhizinic acid salts. A mouthwash soln. contained propylene glycol 3, polyoxyethylene cetyl ether 0.3, Na phosphate 0.2, flavors 0.073, Na tripolyphosphate 0.05, cyclodextrin 0.5, cetylpyridinium chloride 0.03, dipotassium glycyrrhizinate 0.15 g, and

distd. water q.s. to 100 mL.

IC ICM A61K045-06
ICS A61K007-16; A61K007-26; A61P001-02

CC 62-7 (Essential Oils and Cosmetics)

✓ ST **mouthwash** gingivitis **plaque** prevention bactericide
antiinflammatory; cetylpyridinium chloride **glycyrrhizinate**
antiplaque mouthwash ✓

IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(alkylbenzyltrimethyl, chlorides; **mouthwashes** contg.
bactericides and anti-inflammatories)

IT **Mouthwashes**
(**antiplaque**; **mouthwashes** contg. bactericides and
anti-inflammatories)

IT Surfactants
(cationic; **mouthwashes** contg. bactericides and
anti-inflammatories)

IT Gingiva
(gingivitis, prevention of; **mouthwashes** contg. bactericides
and anti-inflammatories)

IT Anti-inflammatory agents
Antibacterial agents
(**mouthwashes** contg. bactericides and anti-inflammatories)

IT **123-03-5**, Cetylpyridinium chloride 68797-35-3, Dipotassium
glycyrrhizinate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(**mouthwashes** contg. bactericides and anti-inflammatories)

L52 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:664505 HCAPLUS

DOCUMENT NUMBER: 135:215778

TITLE: Deep seawater-containing nonirritating cleansing
agents for skin, mouse, and nose

INVENTOR(S): Kasama, Toshio; Nishimori, Ryoji; Saiki, Yoshinori;
Oguro, Akira; Yamazaki, Megumi

PATENT ASSIGNEE(S): Toa Medicine Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokyo Koho, 5 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2001247446	A2	20010911	JP 2000-59889	20000306
AB	Title agents, which may be portioned or aerosol type, contain deep seawater and optionally active ingredient (e.g. menthol and fennel oil). The agents are not irritating to the skin or mucous membrane unlike tap water.				
IC	ICM A61K007-50				
	ICS A61K007-16; A61K009-12; A61K031-045; A61K031-125; A61K031-14; A61K031-155; A61K031-167; A61K031-4174; A61K031-4402; A61K031-4425; A61K031-4706; A61K031-704; A61K031-755; A61K033-30; A61K035-08; A61K035-78; A61K045-08				
CC	62-4 (Essential Oils and Cosmetics)				
IT	Allergy inhibitors Antibacterial agents				

glycyrrhizinate 79874-76-3, Delmopinol 129406-46-8, Lycosin
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)

(**dentifrice** compns. contg. titanium derived compds.)

IT 321546-78-5P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
 (Biological study); PREP (Preparation); USES (Uses)

(**dentifrice** compns. contg. titanium derived compds.)

IT 75-05-8, Acetonitrile, uses 7727-37-9, Nitrogen, uses

RL: NUU (Other use, unclassified); USES (Uses)

(**dentifrice** compns. contg. titanium derived compds.)

IT 65-85-0, Benzoic acid, reactions 69-72-7, Salicylic acid, reactions

99-06-9, 3-Hydroxy benzoic acid, reactions 99-50-3, 3,4-Dihydroxy

benzoic acid 99-96-7, 4-Hydroxy benzoic acid, reactions 303-38-8,

2,3-Dihydroxy benzoic acid 51142-88-2, Titanium fluoride

RL: RCT (Reactant); RACT (Reactant or reagent)

(**dentifrice** compns. contg. titanium derived compds.)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L52 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:227469 HCAPLUS

DOCUMENT NUMBER: 132:241719

TITLE: **Dentifrices** containing bactericides and
 auxiliary agents for prevention of periodontal
 diseases

INVENTOR(S): Kayane, Shigeto; Yanou, Yoshitaka; Fujinaka, Hidetake;
 Yoshida, Hidenori; Murakami, Yoshinori; Suzuki, Akira;
 Maeda, Kouji

PATENT ASSIGNEE(S): Kao Corporation, Japan

SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000018364	A1	20000406	WO 1999-JP4935	19990910
W: CN, SG, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 2000186023	A2	20000704	JP 1998-362263	19981221
JP 2000159648	A2	20000613	JP 1999-217180	19990730
EP 1123696	A1	20010816	EP 1999-943267	19990910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: JP 1998-271721 A 19980925

JP 1998-362263 A 19981221

WO 1999-JP4935 W 19990910

AB Dentifrices comprises (A) an agent having a drug effect or a bactericide
 acting on the periodontium and (B) an exothermic substance or a water-sol.
 polymer and has a moisture content of 5 % by wt. or less. In these
 compns., the agent with the drug effect, etc. can be adsorbed by the mouth
 mucosa at a high efficiency thereby achieving excellent effects of
 preventing/treating periodontal diseases. A dentifrice contained
dl-.alpha.-tocopherol acetate 0.1, .beta.-glycyrrhetinic acid 0.01,
benzethonium chloride 0.01, zeolite 20, magnesium sulfate 5, xanthan gum
0.5, CaHPO4 10, glycerin 32, propylene glycol 25.18, silica 5, Na lauryl

sulfate 1, Na saccharin 0.2, and flavors 1 %.

IC ~~FCM~~ A61K007-16
ICS A46B009-04; A61C017-00

CC 62-7 (Essential Oils and Cosmetics)
Section cross-reference(s): 63

ST **dentifrice** bactericide exothermic agent periodontal disease

IT Antibacterial agents
Dentifrices
(**dentifrices** contg. bactericides and auxiliary agents for prevention of periodontal diseases)

IT Alkaline earth salts
Zeolites (synthetic), biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(**dentifrices** contg. bactericides and auxiliary agents for prevention of periodontal diseases)

IT Periodontium
(disease; **dentifrices** contg. bactericides and auxiliary agents for prevention of periodontal diseases)

IT Materials
(exothermic; **dentifrices** contg. bactericides and auxiliary agents for prevention of periodontal diseases)

IT Brushes
Brushes
Dental materials and appliances
Dental materials and appliances
(toothbrushes; toothbrushes and bactericide-contg. **dentifrices** for prevention of periodontal diseases)

IT 97-59-6, Allantoin 121-54-0, Benzethonium chloride 123-03-5, Cetylpyridinium chloride 299-28-5, Calcium gluconate 471-34-1, Calcium carbonate, biological studies 1309-42-8, Magnesium hydroxide 1406-18-4, Vitamin E 1449-05-4, .beta.-Glycyrrhetic acid 3380-34-5, Triclosan 7487-88-9, Magnesium sulfate, biological studies 7757-93-9, Calcium hydrogen phosphate 9000-07-1, Carrageenan 9004-53-9, Dextrin 9004-64-2, Hydroxypropyl cellulose 11138-66-2, Xanthan gum 50813-16-6, Sodium metaphosphate 51898-34-1, dl-.alpha.-Tocopherol nicotinate 52225-20-4, dl-.alpha.-Tocopherol acetate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(**dentifrices** contg. bactericides and auxiliary agents for prevention of periodontal diseases)

L52 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:105177 HCAPLUS

DOCUMENT NUMBER: 132:156565

TITLE: Shellac-based tooth-coating compositions containing basic amino acids and pH controllers

INVENTOR(S): Oka, Hironori

PATENT ASSIGNEE(S): Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2000044422	A2	20000215	JP 1998-250314	19980731

129280-34-8 (ISOANGUSTONE A)
118524-14-4 (LICOCOUMARONE)
30508-27-1 (LICORICIDIN)

=> 13 and (dentifrice or toothpaste or plaque or caries or mouthwash or chewing gum or streptococcus)

L8 3 L3 AND (DENTIFRICE OR TOOTHPASTE OR PLAQUE OR CARIES OR MOUTHWA
SH OR CHEWING GUM OR STREPTOCOCCUS)

=> d 18 1-3 all

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS

AN 1992:557447 CAPLUS

DN 117:157447

TI **Dentifrices** containing substances extracted from licorice and analogous plants

IN Suido, Hirohisa; Makino, Tomoo; Yamane, Yukie; Naeshiro, Hidekazu

PA Sunstar, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM A61K007-26

CC 62-7 (Essential Oils and Cosmetics)

Section cross-reference(s): 11

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04164021	A2	19920609	JP 1990-289447	19901026
	JP 2848688	B2	19990120		

AB A **dentifrice** contains l-menthol or l-carvone with a fat-sol. ext. of licorice contg. **glabridin**, glabrene, licochalcone A, licochalcone B, and licocoumarone. A **toothpaste** was prepd. contg. 0.1 % licorice ext. (**glabridin** 10 and glabrene 3%) and 0.5 % l-carvone.

ST **dentifrice** licorice ext

IT Licorice

RL: BIOL (Biological study)
(ext. of, **dentifrices** contg.)

IT **Dentifrices**

(licorice ext. in)

IT **Chewing gum**

(licorice ext.-contg.)

IT Confectionery

(candy, licorice ext.-contg.)

IT 2216-51-5, l-Menthol 6485-40-1, l-Carvone

RL: BIOL (Biological study)

(**dentifrice** contg. licorice ext. and)

IT 58749-22-7, Licochalcone A 58749-23-8, Licochalcone B 59870-68-7,

Glabridin 60008-03-9, Glabrene 118524-14-4, Licocoumarone

RL: BIOL (Biological study)

(of licorice, **dentifrice** contg.)

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS

AN 1991:614829 CAPLUS

DN 115:214829

TI Anticaries **glabridin** and/or glabrene from Glycyrrhiza glabra

IN Nishida, Koichi; Kawai, Toshihiro; Tamura, Kokichi; Tsutsumi, Tatsuhiko

PA Maruzen Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese
 IC ICM A61K007-16
 ICS A61K031-35; A61K035-78
 ICA C07D311-58; C07D493-04
 CC 63-4 (Pharmaceuticals)
 Section cross-reference(s): 1, 11, 17, 62
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03109314	A2	19910509	JP 1989-243542	19890921

AB Anticaries agents, useful for **dentifrices**, **chewing gum**, candy, etc., contain **glabridin** (I), **glabrene** (II), or licorice ext. contg. I and II as active ingredients. Glycyrrhiza glabra root (100 g) was refluxed with AcOEt and the ext. was chromatographed to give 0.4 g I and 0.08 g II. I and II both inhibited **Streptococcus** mutans with min. inhibitory concn. of 3.13 ppm. Vinyl acetate polymer 20.0, polyisobutylene 3.0, sorbitol 64.0, mannitol 9.0, flavor 1.0, and I 0.0006 part were mixed to give a **chewing gum**.

ST **glabridin** **glabrene** licorice bactericide **Streptococcus**; **dentifrice** food anticaries licorice ext

IT **Streptococcus** mutans

(bactericides for, **glabridin** and **glabrene** as)

IT **Chewing gum**

(contg. **glabridin** and **glabrene**, anticaries)

IT **Dentifrices**

(contg. **glabridin** and/or **glabrene**, anticaries)

IT Licorice

RL: BIOL (Biological study)

(ext., as bactericide against **Streptococcus** mutans, for **dentifrices** and anticaries foods)

IT Confectionery

(candy, contg. **glabridin** and **glabrene**, anticaries)

IT Bactericides, Disinfectants, and Antiseptics

(medical, **glabridin** and **glabrene**, for **Streptococcus** mutans)

IT 59870-68-7, **Glabridin** 60008-03-9, **Glabrene**

RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)

(bactericide, against **Streptococcus** mutans, for **dentifrices** and anticaries foods)

L8 ANSWER 3 OF 3 USPATFULL

AN 2001:93078 USPATFULL

TI Gums containing antimicrobial agents

IN Iyer, Lokanathan M., Bellevue, WA, United States

Barkans, Dawn E., Redmond, WA, United States

Hench, Brian D., Shoreline, WA, United States

PA Optiva Corporation, Snoqualmie, WA, United States (U.S. corporation)

PI US 6248309 B1 20010619

AI US 1999-378557 19990819 (9)

RLI Continuation-in-part of Ser. No. US 1999-316074, filed on 20 May 1999, now abandoned Continuation of Ser. No. US 1997-832821, filed on 4 Apr 1997, now patented, Pat. No. US 5939050 Continuation-in-part of Ser. No. US 1997-825525, filed on 4 Apr 1997

DT Utility

FS GRANTED

REP US 428033 May 1890

Alson et al.

US 1492299 Apr 1924

Kyle et al.

US 3787566 Jan 1974

Gauvreau

US 3876759 Apr 1975

Pensak et al.

US 3940476 Feb 1976

Haas

US 4022880 May 1977

Vinson et al.